

**Information Disclosure Statement  
by Applicant**  
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U.S. Department of Commerce  
Patent and Trademark Office

Attorney's Docket No.  
12406-003002

Application No.  
09/731,220

Applicant  
Hohn et al.

Filing Date  
December 6, 2000

Group Art Unit  
2815

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	2,096,693	10/37	Cox	313	485	
	AB	2,192,869	3/40	Pearce	313	485	
	AC	3,593,055	7/71	Geusie	257	98	
	AD	3,602,758	8/71	Thornton	313	485	
	AE	3,669,478	10/72	Pinnow et al.			
	AF	3,691,482	9/72	Pinnow	330	108	
	AG	3,819,974	8/74	Stevenson et al.			
	AH	3,932,881	1/76	Mita	257	98	
	AI	5,019,746	5/91	Merg			
	AJ	5,126,214	6/92	Tokailin	313	503	
	AK	5,535,230	7/96	Abe	257	98	
	AL	5,959,316	9/99	Lowery	257	98	
	AM	5,998,925	12/99	Shimizu et al.			
	AN						

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AO	0 486 052 A1	5/92	Europe				
	AP	081010/1997	3/97	Japan				
	AQ	198585/1996	7/96	Japan				
	AR	2 347 289	4/74	Germany				
	AS	244339/1996	9/96	Japan				
	AT	245381/1996	9/96	Japan				
	AU	33 15 675 A1	11/83	Germany				
	AV	359004/1996	12/96	Japan				
	AW	38 04 293 A1	8/89	Germany				
	AX	97 933 047.9	7/97	Europe				

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

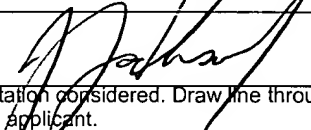
Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 12406-003002	Application No. 09/731,220
<b>Information Disclosure Statement</b> <b>by Applicant</b> (Use several sheets if necessary) MAY 21 2001 U.S. PATENT & TRADEMARK OFFICE CER \$1.00		Applicant Hohn et al.	
		Filing Date December 6, 2000	Group Art Unit 2815

### Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AY							

### Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AZ	B.M. J. Smets, "Phosphors Based On Rare-Earths, A New Era in Fluorescent Lighting", Materials Chemistry and Physics, 16 (1987), pp. 283-299
	AAA	Chao et al., Jour Solid State Chemistry, "White Light Emitting Glass", pg 17-29
	ABB	D.J. Robbins, "The Effects of Crystal Field and Temperature on the Photoluminescence Excitation of Ce <sup>3+</sup> in YAG", J. Electrochem. Soc.; Solid State Science and Technology, September 1979, Vol. 126, No. 9, pp. 1550-1555
	ACC	Frank Möllmer et al., "Siemens SMT-TOPLED für die Oberflächenmontage", [Siemens SMT-TOPLEDs for surface mounting], Siemens Components 29, 1991, No. 4, pp. 147-149
	ADD	G. Blasse et al., "A New Phosphor For Flying-Spot Ray Tubes For Color Television; Yellow-Emitting Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> Ce <sup>3+</sup> ", Applied Physics Letter, Vol. 11, No. 2, 15 July 1967, pp. 53, 54
	AEE	German Utility Model G 90 13 615.2., dated January 24, 1991, electroluminescent or laser diode
	AFF	Glen A. Slack et al., "Optical Absorption of Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> from 10- to 55000-cm <sup>-1</sup> Wave Numbers", Physical review, Vol. 177, No. 3, 15, January 1969, pp. 1308-1314
	AGG	Japanese Patent Abstract 07176794 A (Yoshinori), dated July 14, 1995
	AHH	Japanese Patent Abstract 08007614 (Yoshinori), dated January 12, 1996
	AII	Japanese Patent Abstract No. 5-152609 (Tdatatsu), dated June 18, 1993
	AJJ	Mary V. Hoffman, "Improved color rendition in high pressure mercury vapor lamps", Journal of IES, January 1977, pp. 89-91
	AKK	S.N. Mohammad et al., "Emerging Gallium Nitride Based Devices", Proceedings of the IEEE, Vol. 83, No. 10, October 1995, pp. 1306-1355
	ALL	Sato et al., "Full-Color...Diode", Jpn. J. Appl. Phys., Vol 24 (1996), pp. L838-L839, 7/96
	AMM	Shuji Nakamura et al., "The blue laser diode; GaN based light emitters and lasers", Springer Verlag, Berlin, 1997, 99. 216-219, 328
	ANN	Siemens Forsch.-u. Entwickl.-Ber Bd 5 (1977) No. 3, p. 162 [Siemens research and development reports, vol., 6]
	AOO	Thomas Jüstel et al., "Neue Entwicklungen auf dem Gebiet lumineszierender Materialien für Beleuchtungs- und Displayanwendungen" [new developments in the field of luminescent material for lighting and display applications], Angew. Chem., 1998, 110, pp. 3250-3271
	APP	White LED Lamp by Nichia, copy of a Japanese Newspaper, dated September 1996
	AQQ	

Examiner Signature 	Date Considered 11/02
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